



output: $open$ z_1 z_2

$z_1 z_2$: 00 0 cent return
 01 5 cents return
 10 10 cents return
 11 never happen

Note: Open remains high even when the state is changed (E.g. from 15 cents to 20 cents). But it is the same gum that is being dispensed. The reset signal is sent after a predetermined time period (E.g. 30 seconds) after open first becomes high. This time period is determined to be sufficient to dispense the gum.